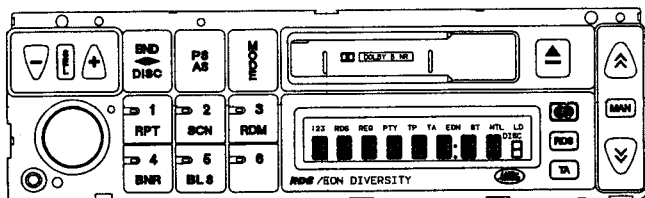


clarion Service Manual

Published by Service Information Section



LAND ROVER RDS/FM • MPX/MW/LW Radio Cassette Stereo with CD Changer Control Model **PU-9836A** (Part No. PRC 7618)

■ SPECIFICATIONS:

[Radio section]

Circuit system: Superheterodyne
Tuning system: Electronic tuning
Receiver range: LW 153kHz to 279kHz
MW 531kHz to 1,602kHz
FM 87.5MHz to 108MHz

Intermediate frequency: LW 450kHz
MW 450kHz
FM 10.7MHz

Quieting sensitivity: LW Less than 42dB
(at 20dB S/N)
MW Less than 35dB
(at 20dB S/N)
FM Less than 12dB
(at 30dB S/N)

Separation: FM More than 20dB


Auto tuning stop sensitivity:
LW DX 20~40dB
LO 45~65dB
MW DX 20~40dB
LO 45~65dB
FM DX 15~35dB
LO 40~60dB

[Tape section]

Reproduction system: 4 track, 2 channel stereo
cassette tape playback
Tape speed: 4.76cm/sec (1-7/8 ips)
Wow and flutter: 0.15% (W.R.M.S)
S/N ratio: More than 56/48dB,
Dolby B ON/OFF (120 μs)
More than 58/50dB,
Dolby B ON/OFF (70 μs)
Cross talk: More than 40dB
Separation: More than 30dB
FF/REW time: Less than 110sec. (C-60)

[Synthesis]

Power Supply voltage: DC 14.0V (10.8V to 15.6V)
Negative ground
Current consumption: Less than 3mA (at ACC OFF)
Load impedance: 660Ω
Line out level: 0.125V ± 6dB
Quieting power output: More than 8W × 4
Dimensions: Width 178mm
Height 50mm
Depth 160mm
Weight: 1.5kg

• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
• "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

■ COMPONENTS:

• PU-9836A		
Main unit		1
Mounting bracket	300-9550-00	1
[Removal tool	341-1446-01	1]

■ ANTI-THEFT-SYSTEM:

- Releasing the ANTI-THEFT SYSTEM (When reinserting the car stereo or reconnecting the battery.)
- 1. Make the necessary wire connections.
- 2. Turn on POWER switch. ("CODE IN" is displayed.)
- 3. Using PRESET button 1 to 6, input the secret number.

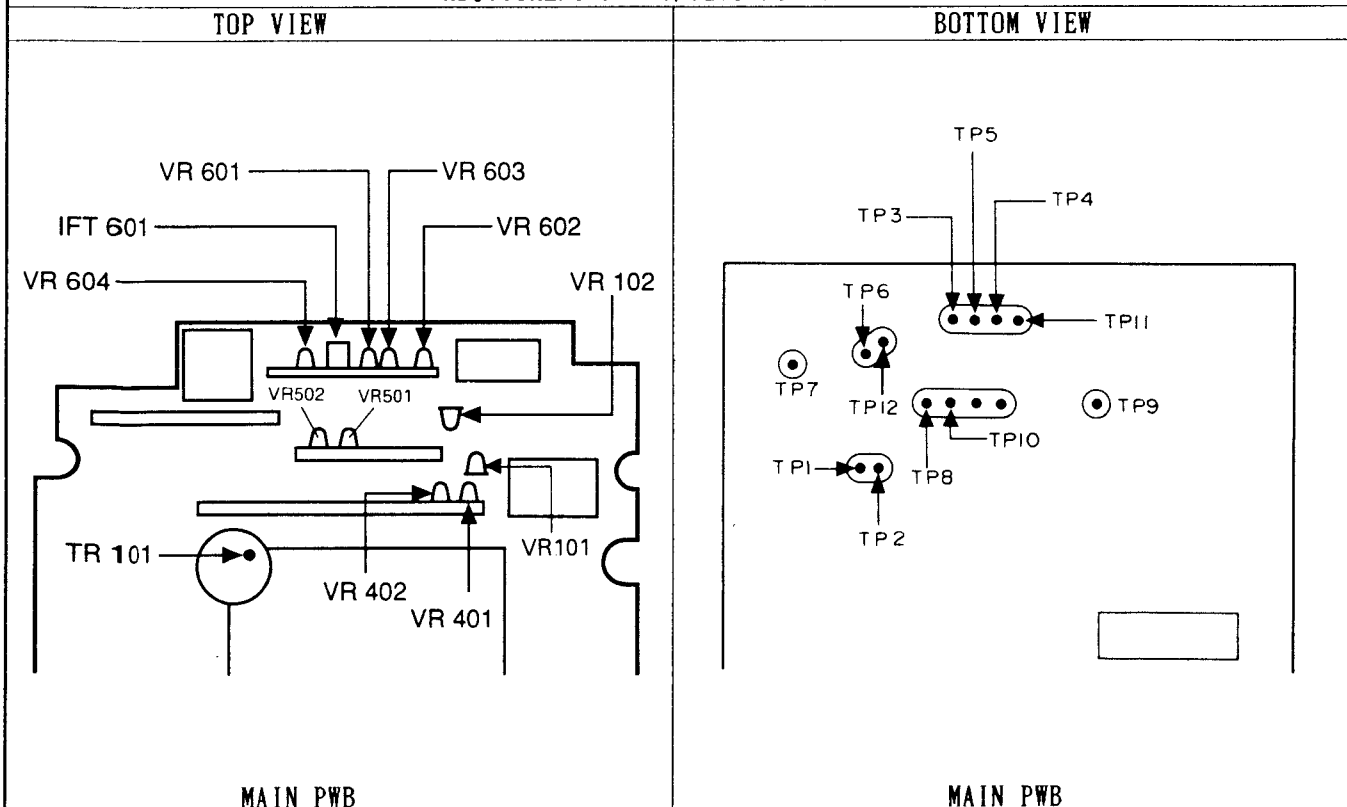
After the last code number is entered the radio will operate.

- In case the wrong code was entered.
- 1. Finish entering all four digits.
- 2. Press BAND button for approximately two seconds.
- 3. Input the correct code.
- Waiting time for releasing the ANTI-THEFT SYSTEM (If the wrong code was entered at three times.)
- 1. Wait for more than an hour at the necessary wire connections.
- 2. Press BAND button for two seconds.
- 3. Input the correct code.

■ ADJUSTMENT:

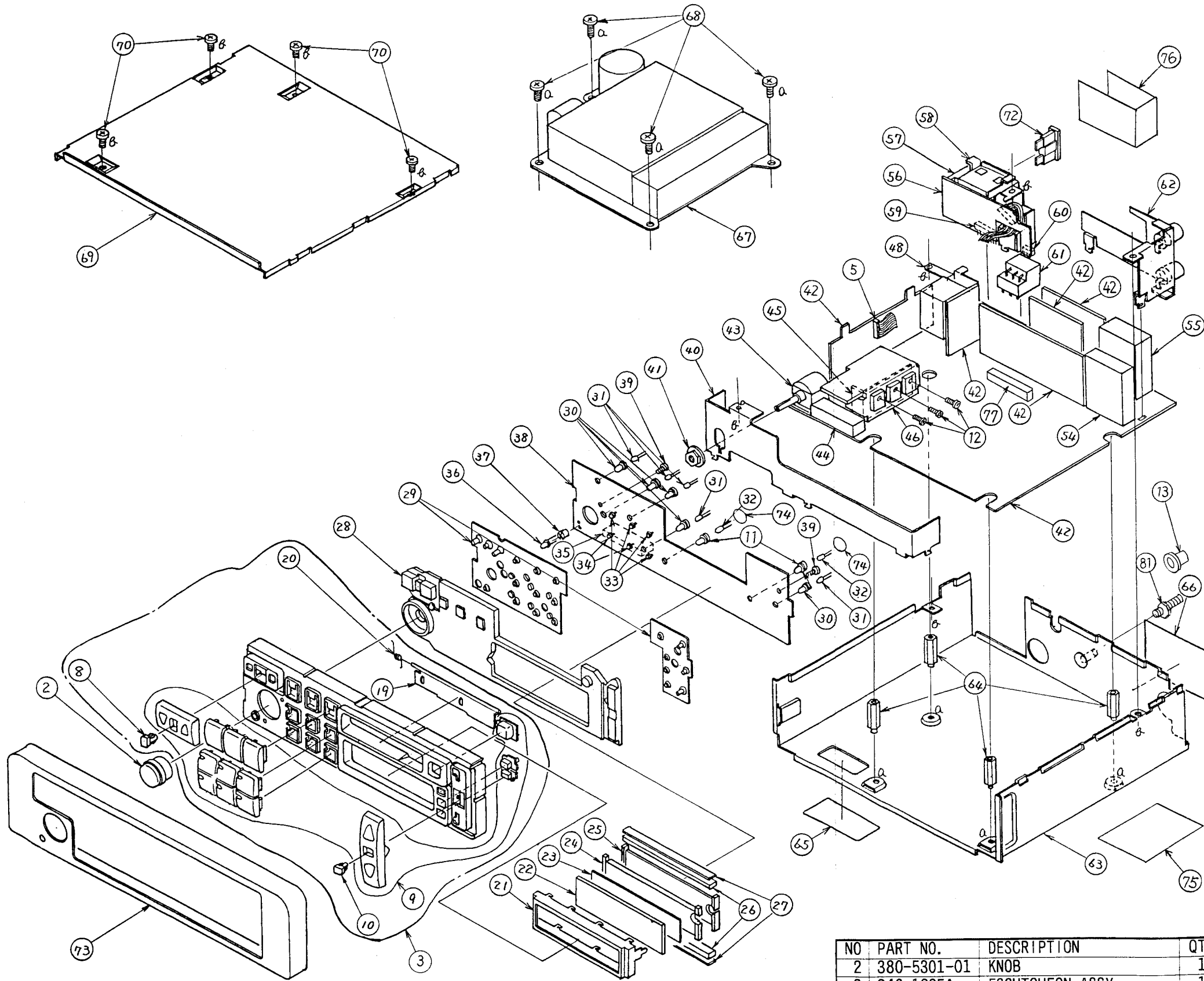
ITEM	TEST-POINT	PROCEDURE
OV	IFT601	1.CONNECT THE DIGITAL VOLT-METER TO TP3 AND TP4. 2.INPUT THE 98.1MHz/30dB SIGNAL(no MOD),AND ADJUST THE READING OF DIGITAL VOLT-METER TO $0 \pm 20\text{mV}$ BY IFT601.
Limiter	VR602	1.INPUT THE 98.1MHz/65dB SIGNAL(400Hz,30% MOD).[OUTPUT:0dB(0.245V)] 2.SET THE SSG OUTPUT TO 10dB,AND ADJUST THE OUTPUT LEVEL TO -3dB BY VR602.
SD	VR601	1.CONNECT BETWEEN TP9 AND TP10(5V). 2.INPUT THE 98.1MHz/23dB SIGNAL(400Hz,30% MOD). 3.ADJUST VR601 SO THAT THE VOLTAGE OF TP5 IS IN THE RANGE 0V TO 5V.
S-meter	VR102	1.CONNECT THE DIGITAL VOLT-METER TO TP6. 2.INPUT THE 98.1MHz/35dB SIGNAL(400Hz no MOD). 3.ADJUST THE LEVEL TO $2.4 \pm 0.1\text{V}$ BY VR102.
SASC	VR603	1.INPUT THE 98.1MHz/65dB SIGNAL(7KHz 30% MOD). 2.SET THE OUTPUT TO 0dB BY VR603 FULLY COUNTER-CLOCKWISE.(0.775V) 3.SET THE SSG OUTPUT TO 43dB,AND ADJUST VR603 SO THAT THE OUTPUT LEVEL IS -2dB.
Separation	VR604	1.INPUT THE 98.1MHz,CONNECT THE OUTPUT OF A STEREO MODULATOR TO THE EXTERNAL MODULATION TERMINAL, AND INPUT A 65dB SIGNAL. 2.SET THE STEREO MODULATOR TO THE L OR R-ch AND ADJUST VR604 SO THAT THE MAXIMUM SEPARATION IS OBTAINED.(MORE THAN 20dB)
CW	VR501	1.CONNECT THE MILLI VOLT-METER TO TP8. 2.INPUT THE 98.1MHz/65dB SIGNAL(100Hz,MONO) AND ADJUST THE LEVEL TO $1.77\text{V} \pm 1\text{dB}$ BY VR501.
DK	VR502	1.INPUT tTHE 98.1MHz/55dB SIGNAL (no MOD,SK DK on) 2.CONNECT THE OSCILLOSCOPE TO TP9,AND ADJUST VR502 SO THAT THE OSCILLOSCOPE OUTPUT WAVEFORM IS MAXIMUM.
Tape speed	TR101	1.INSERT A TAPE SPEED TEST TAPE (3000Hz). 2.ADJUST THE TAPE SPEED TO $3000 \pm 45\text{Hz}$ BY TR101.
Dolby NR	VR401 VR402	1.INSERT A DOLBY LEVEL TEST TAPE (400Hz-200nWb/m),CONNECT THE MILLI VOLT-METER TO TP1(L) AND TP2(R). 2.ADJUST VR401(L) AND VR402(R) TO OBTAIN AN OUTPUT OF $388\text{mV} \pm 1\text{dB}$.

ADJUSTMENT POINT/TEST POINT



*DIVER FIX(MAIN):Connect TP12 to earth.

■ EXPLODED VIEW • PARTS LIST:



NO	PART NO.	DESCRIPTION	QTY
11	345-7148-06	LAMP CAP	2
12	714-2608-81	MACHINE SCREW	3
13	345-3653-01	SPACER	1
19	320-0391-41	DUSTPROOF-CVR	1
20	750-2309-01	SPRING	1
21	331-0157-00	LCD HOLDER	1
22	379-1005-21	INDICATOR	1
23	335-4512-01	COLOR FILTER	1
24	335-4479-00	BACK LIGHT	1
25	335-4480-00	LCD SPACER	1
26	345-7366-00	RUBBER CONNECTOR	2
27	347-3818-00	SPACER	2
28	335-4477-03	ILLUMI PLATE	1
29	345-5156-01	RUBBER SWITCH	1
30	345-7148-07	LAMP CAP	5
31	017-0345-09	PILOT LAMP	5
32	017-0376-02	PILOT LAMP	2
33	001-0486-04	LED	4
34	001-7009-01	LED	2
35	074-0961-28	OUTLET SOCKET*28P MAIN	1
36	001-0207-00	LED*RED/CATS	1
37	335-4513-00	LED SPACER	1
38	099-9982-02	SWITCH PWB	1
39	702-2005-81	TAP SCREW	2
40	331-0158-00	FRONT PLATE	1
41	722-0368-00	NUT	1
42	099-9981-03	MAIN PWB	1
43	012-5194-00	VARIABLE-R*VOL	1
44	076-0414-28	PLUG*28P-ES	1
45	330-9409-01	HEATSINK HOLDER	1
46	313-1548-01	HEAT SINK	1
48	331-0160-00	CHOKE HOLDER	1
54	880-1602A	MW/LW TUNER BLOCK	1
55	880-1418A	FM TUNER BLOCK	1
57	074-0930-03	OUTLET SOCKET*26P ISO	1
58	330-9391-01	BACK PLATE	1
59	076-0420-02	PLUG*10P	1
60	076-0288-02	PLUG*2P	1
61	074-0818-00	OUTLET SOCKET*13P-BUS	1
62	331-0161-05	ANT-HOLDER	1
63	311-1591-08	LOWER CASE	1
64	716-1461-00	SPACER	4
65	290-4411-00	LABEL	1
66	290-4642-00	LABEL	1
67	930-0735-00	TAPE-MECHANISM*GFX	1
68	716-0878-00	IT-SCREW	4
69	310-1527-00	UPPER CASE	1
70	714-2605-81	MACHINE SCREW	4
72	060-0057-52	AUTO-FUSE*3A	1
73	335-4476-06	PANEL	1
74	353-0359-00	SHADE	2
75	286-7975-02	SETPLATE	1
76	347-3827-00	INSULATOR	1
77	076-0433-20	PLUG*20P	1
81	716-0871-00	STUD BOLT	1

NO	PART NO.	DESCRIPTION	QTY
2	380-5301-01	KNOB	1
3	940-1665A	ESCUTCHEON-ASSY	1
5	854-3230-00	EXTENSION LEAD*8P	1
8	382-3350-01	BUTTON*SEL	1
9	947-0352-07	BUTTON-ASSY	1
10	382-3352-01	BUTTON*MAN	1

■ PARTS LIST:

◎ Electrical section

• SWITCH P.W.B

REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
D104	001-0207-00	LED *RED	1	IC102, 103	051-6005-00	IC LC75821E	2
D101-103, 107	001-0486-04	LED GL1HS111	4	C101	176-3301-00	CHIP-C 33pF	1
D105, 106	001-7009-01	LED GL1HS112	2	C102	178-1032-05	CHIP-C 0.01μF	1
C104, 107	043-1601-10	CHIP-C 0.1μF	2	C103, 106	178-6812-05	CHIP-C 680pF	2
IC101	051-1345-15	IC MB88307APFG	1				

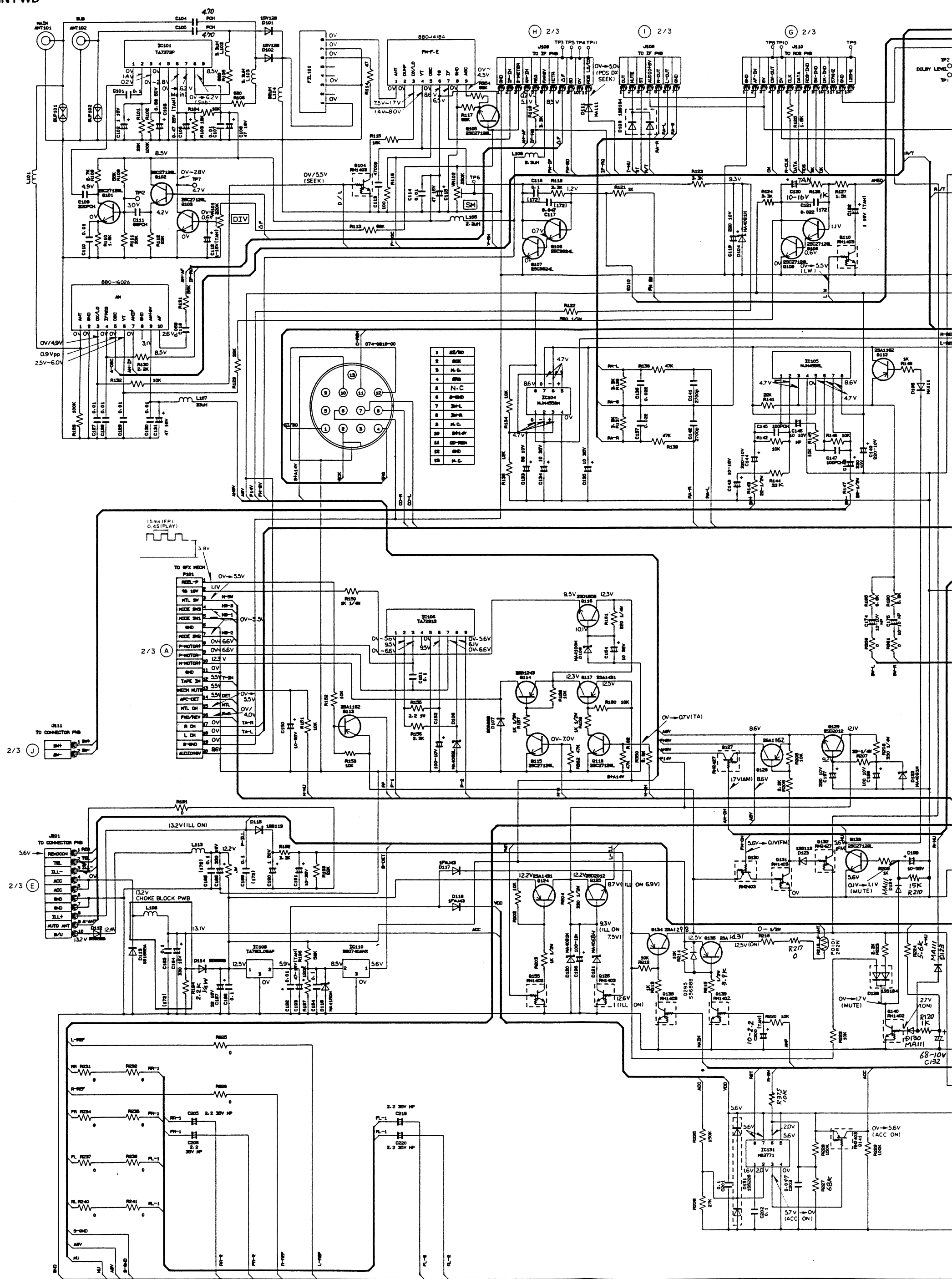
• MAIN P.W.B

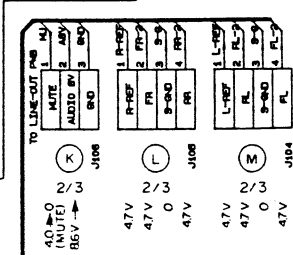
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D113	001-0188-01	DIODE 1S1885A	1	C119, 144, 148	042-0452-01	ELECTRO-C 10V 220μF	10
D115, 123, 142	001-0330-00	DIODE 1SS119	3	149, 461, 712			
	001-0352-00	1SS176		713, 722, 723			
D103, 128, 146	001-0356-00	DIODE 1SS184	5	725			
701, 702	001-0354-00	MA151WK		C636	043-1600-39	CHIP-C 0.039μF	1
D145, 401	001-0356-05	DIODE 1SS181	2	C203, 517, 526	043-1600-47	CHIP-C 0.047μF	8
	001-0354-05	MA151WA		604, 608, 609			
D131, 143, 144	001-0367-00	DIODE 1SS226	6	627, 628			
151, 601, 602	001-0541-00	MA157A		C514	043-1600-56	CHIP-C 0.056μF	1
D106	001-0377-34	DIODE MA4062L	1	C118, 527, 631	043-1600-68	CHIP-C 0.068μF	3
	001-0376-34	MTZJ6. 2A		C436, 452	043-1600-82	CHIP-C 0.082μF	2
D121	001-0377-39	DIODE MA4068H	1	C101, 151, 188	043-1601-10	CHIP-C 0.1μF	25
	001-0376-40	MTZJ7. 5A		194, 201, 202			
D120, 122	001-0377-47	DIODE MA4091M	2	233, 236, 249			
	001-0376-48	MTZJ9. 1C		253, 256, 456			
D104	001-0377-48	DIODE MA4091H	1	254, 402, 405			
	001-0376-49	MTZJ10A		460, 463, 503			
D108	001-0377-50	DIODE MA4100M	1	507, 510, 525			
	001-0376-51	MTZJ10C		528, 603, 614			
D116	001-0377-63	DIODE MA4150M	1	624			
	001-0376-64	MTZJ15C		IC119	051-0160-56	IC HD74LS07FPD	1
D107, 112, 114	001-0466-00	DIODE S5688B	4	IC104, 404	051-0350-55	IC NJM4558M	2
295	001-0534-00	1SR139-100		IC502	051-0556-01	IC NJM2058M	1
D117, 118	001-0502-00	DIODE 1FWJ43	2	IC401, 402	051-0853-01	IC M5201FP	2
D105, 111, 124	001-0516-00	DIODE MA111	7	IC131	051-0869-05	IC MB3771PF(-G)	1
129, 130, 137				IC106	051-1014-10	IC TA7291S	1
138				IC405	051-1038-01	IC CXA1102M	1
D101, 102	001-0579-00	DIODE 1SV128	2	IC115	051-1046-46	IC LC3517BML	1
P0601	002-0220-00	THERMISTOR *PTH60T102	1	IC109	051-1188-01	IC TA78DL06AP	1
P0101	002-0222-00	THERMISTOR *PTH61GR2R	1	IC602	051-1250-00	IC TC4S66F	1
IFT602	005-1022-51	IF-TRANS *MS3A	1	IC101	051-1282-00	IC TA7372P	1
IFT601	005-1035-00	IF-TRANS *OV	1	IC117	051-1375-35	IC	1
L113	009-0470-02	CHOKE *B/U	1	IC105, 701-704	051-1407-00	IC NJM4556L	5
L109	009-0618-00	CHOKE *ACC	1	IC601	051-1525-00	IC TA8172AF	1
L101	010-2003-04	COIL *36uH	1	IC110	051-1556-05	IC S-80740AN	1
L620	010-2174-36	COIL *1mH	1	IC503	051-1817-00	IC TDA1581T	1
L621	010-2199-16	COIL *2. 2uH	1	IC501	051-1819-00	IC SAA6579T	1
L105, 106, 112	010-2230-14	COIL *2. 2uH	3	IC403	051-5001-00	IC M51139FPA	1
L102, 103	010-2230-16	COIL *3. 3uH	2	IC116	052-1103-01	μ PD17006AGF-625-3B9	1
L107, 111	010-2230-28	COIL *33uH	2	IC118	052-3109-01	μ PD75518AGF-173-3B9	1
L104	010-2230-33	COIL *82uH	1	SUP101, 102	060-0122-10	SURGE PROTECTOR	2
VR502	012-4318-00	VARIABLE-R *330	1	X102	060-0130-50	CERA-RESONATOR *4.19MHz	1
VR501	012-4318-04	VARIABLE-R *3. 3K	1	FIL101	060-0235-00	BAND-PASS-FILTER	1
VR401, 402	012-4318-06	VARIABLE-R *10K-DBY	2	X601	060-0240-00	CERA-RESONATOR *1F 456K	1
VR101	012-4738-11	VARIABLE-R *220K	1	X101	061-1053-00	CRYSTAL *4. 5MHz	1
VR102	012-4738-12	VARIABLE-R *330K	1	X501	061-3013-00	CRYSTAL-OSC *4. 332MHz	1
VR601	012-4863-06	VARIABLE-R *10K	1	Q112, 113, 128	100-1162-00	TRANSISTOR 2SA1162	8
VR603, 604	012-4863-07	VARIABLE-R *22K	2	148, 701-704	100-1179-00	2SA1179	
VR602	012-4863-09	VARIABLE-R *47K	1	Q134	100-1298-00	TRANSISTOR 2SA1298	1
C193	042-0171-00	TANTALUM-C 16V 47μF	1	Q117, 124, 135	100-1431-00	TRANSISTOR 2SA1431	3
C120	042-0176-00	TANTALUM-C 16V 10μF	1	Q114	101-1243-00	TRANSISTOR 2SB1243	1
C619	042-0245-00	TANTALUM-C 35V 0. 68μF	1	Q101-103, 105	102-2712-51	TRANSISTOR 2SC2712G, L	11
C198	042-0334-32	ELECTRO-C 16V 100μF	1	108, 109, 115	102-2412-50	2SC2412K-R, S	
C197, 710, 711	042-0378-00	ELECTRO-C 10V 220μF	5	118, 133, 154			
709, 724				605			
C112, 122, 635	042-0397-00	CHIP-C 16V 1μF TAN	4	Q603	102-2715-00	TRANSISTOR 2SC2715	1
639				Q106, 107	102-3624-00	TRANSISTOR 2SC3624AL	2
C106	042-0397-03	CHIP-C 25V 0. 47μF TAN	1	Q116	103-1858-00	TRANSISTOR 2SD1858	1
C200	042-0397-04	CHIP-C 10V 2. 2μF TAN	1	Q129, 125	103-2012-00	TRANSISTOR 2SD2012	2
C640	042-0397-06	CHIP-C 35V 0. 1μF TAN	1	Q604	108-0372-00	FET 2SK372	1
C607	042-0403-01	CHIP-C 16V 10μF TAN	1				
C260	042-0450-00	ELECTRO-C 6. 3V 470μF	1				

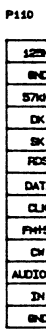
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Q130, 141, 153	125-0002-03	TRANSISTOR RN2403	3	C441, 447	178-1232-05	CHIP-C 0.012μF	2
	125-0001-02	UN2112		C530	178-1832-05	CHIP-C 0.018μF	1
	125-0014-03	DTA124EK		C606	178-2222-05	CHIP-C 2200pF	1
Q139, 140, 155	125-2004-02	TRANSISTOR RN1402	3	C136, 137, 605	178-2232-05	CHIP-C 0.022μF	4
	125-2005-01	UN2211		617			
	125-2020-02	DTC114EK		C141, 142	178-2722-05	CHIP-C 2700pF	2
	125-2031-02	MUN2211		C513	178-2732-05	CHIP-C 0.027μF	1
Q104, 110	125-2004-03	TRANSISTOR RN1403	11	C113	178-4722-05	CHIP-C 4700pF	1
126, 131, 136	125-2005-02	UN2212		C146, 174, 175	182-1066-25	ELECTRO-C 10V 10μF	5
150, 401, 501	125-2020-03	DTC124EK		703, 707			
502, 601, 602				C602	182-4763-23	ELECTRO-C 10V 47μF	1
Q127, 132	125-0013-07	TRANSISTOR RN2427	2	C108, 115	182-4763-33	ELECTRO-C 16V 47μF	2
R155	114-2291-11	FILM-R 1W 2. 2Ω	1	C102, 190, 412	183-1053-61	ELECTRO-C 50V 1μF	9
C116, 183, 185	172-1041-11	POLYESTOR-C 0. 1μF	5	417, 509, 515			
189, 212				611, 632, 634			
C121	172-2231-11	POLYESTOR-C 0.022μF	1	C143, 413, 459	183-1063-31	ELECTRO-C 16V 10μF	18
C117	172-4731-11	POLYESTOR-C 0.047μF	1	508, 511, 512			
C521, 522	172-6831-11	POLYESTOR-C 0.068μF	2	531, 532, 610			
C145, 147, 408	176-1011-00	CHIP-C 100pF	13	618, 629, 637			
410, 518, 701				642, 638, 702			
704, 705, 708				706, 715, 719			
714, 715, 718				C134, 135, 154	183-1063-51	ELECTRO-C 35V 10μF	7
721				166, 191, 199			
C237, 238, 615	176-2201-00	CHIP-C 22pF	3	232			
C109, 434, 453	176-2211-00	CHIP-C 220pF	3	C403, 406, 716	183-1066-21	ELECTRO-C 10V 10μF	4
C616	176-2701-00	CHIP-C 27pF	1	720			
C501, 516, 612	176-3311-00	CHIP-C 330pF	3	C419	183-1073-11	ELECTRO-C 6. 3V 100μF	1
C467, 506	176-4701-00	CHIP-C 47pF	2	C152, 196	183-1073-21	ELECTRO-C 10V 100μF	2
C104, 105, 440	176-4711-00	CHIP-C 470pF	4	C502	183-2253-61	ELECTRO-C 50V 2. 2μF	1
448				C205, 206, 219	183-2256-51	ELECTRO-C 35V 2. 2μF NP	16
C520	176-5601-00	CHIP-C 56pF	1	220, 432, 433			
C504	176-5611-00	CHIP-C 560pF	1	435, 437, 443			
C111, 407, 409	176-6801-00	CHIP-C 68pF	3	445, 451, 454			
C641	176-6811-00	CHIP-C 680pF	1	455, 466, 902			
C505	176-8201-00	CHIP-C 82pF	1	903			
C523, 529	177-1542-05	CHIP-C 0.15μF	2	C187	183-2263-31	ELECTRO-C 16V 22μF	1
C457, 462, 524	177-2242-05	CHIP-C 0.22μF	3	C401, 404, 418	183-3363-21	ELECTRO-C 10V 33μF	3
C234, 235	178-1022-05	CHIP-C 1000pF	16	C411, 416, 519	183-4753-52	ELECTRO-C 35V 4. 7μF	3
239-248, 621				C458, 633	183-4763-11	ELECTRO-C 6. 3V 47μF	2
625, 626, 630				C131, 613	183-4763-31	ELECTRO-C 16V 47μF	2
C107, 110	178-1032-05	CHIP-C 0.01μF	23	C103, 414, 420	183-6843-61	ELECTRO-C 50V 0. 68μF	4
114, 127-130				430			
192, 301, 415				C132, 133	183-6863-21	ELECTRO-C 10V 68μF	2
431, 620, 623				C184, 186	184-3373-32	ELECTRO-C 16V 330μF	2
801-810							

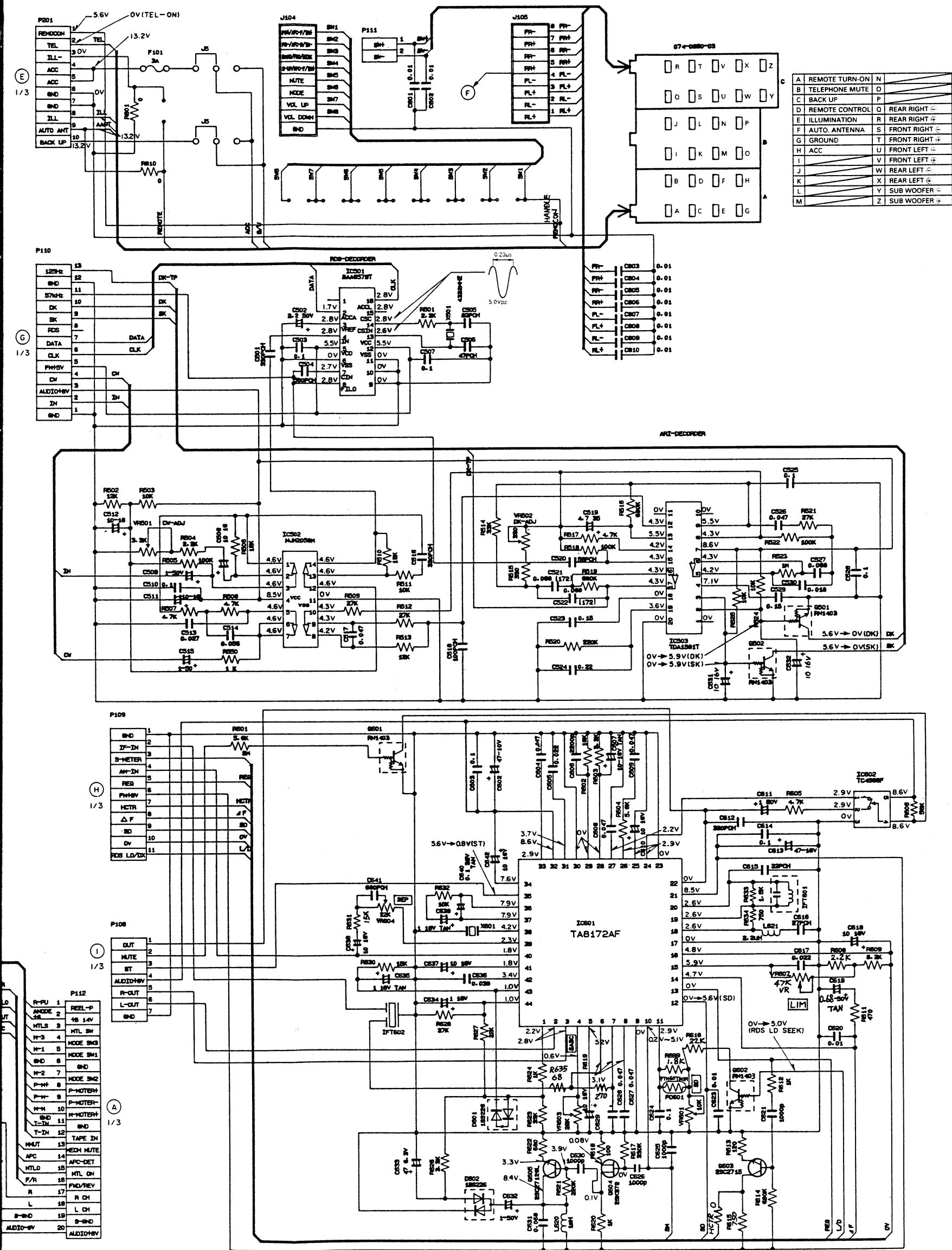
• SIDE P.W.B

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C6, 7	042-0476-01	ELECTRO-C 10V 33μF	2	C14	183-2263-31	ELECTRO-C 16V 22μF	1
IC1	051-1546-10	IC BA3430S	1	C13	183-4743-61	ELECTRO-C 50V 0. 47μF	1
C8, 9	173-1231-10	POLYESTOR-C 0.012μF	2	C10, 15, 16	183-4753-51	ELECTRO-C 35V 4. 7μF	3
C1-4, 12	175-5611-50	CHIP-C 560pF	5	C5	183-4763-11	ELECTRO-C 6. 3V 47μF	1
C11	183-1043-61	ELECTRO-C 50V 0.1μF	1				

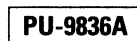




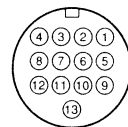
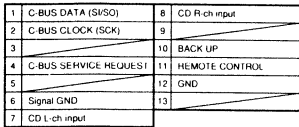




© SWITCH PWB

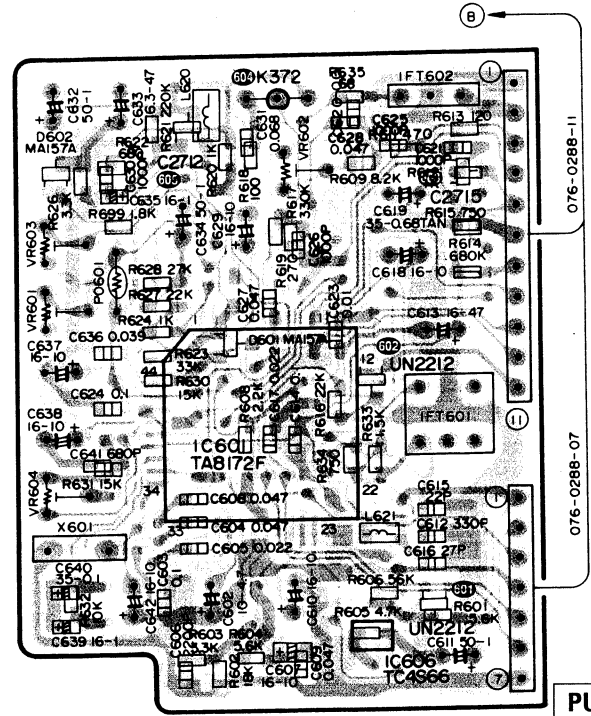
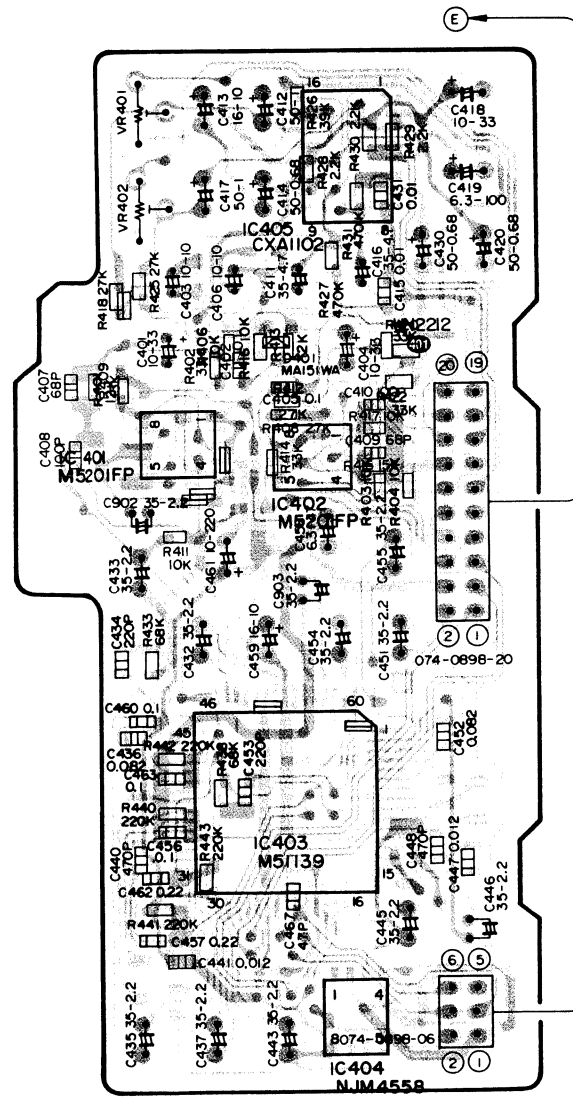
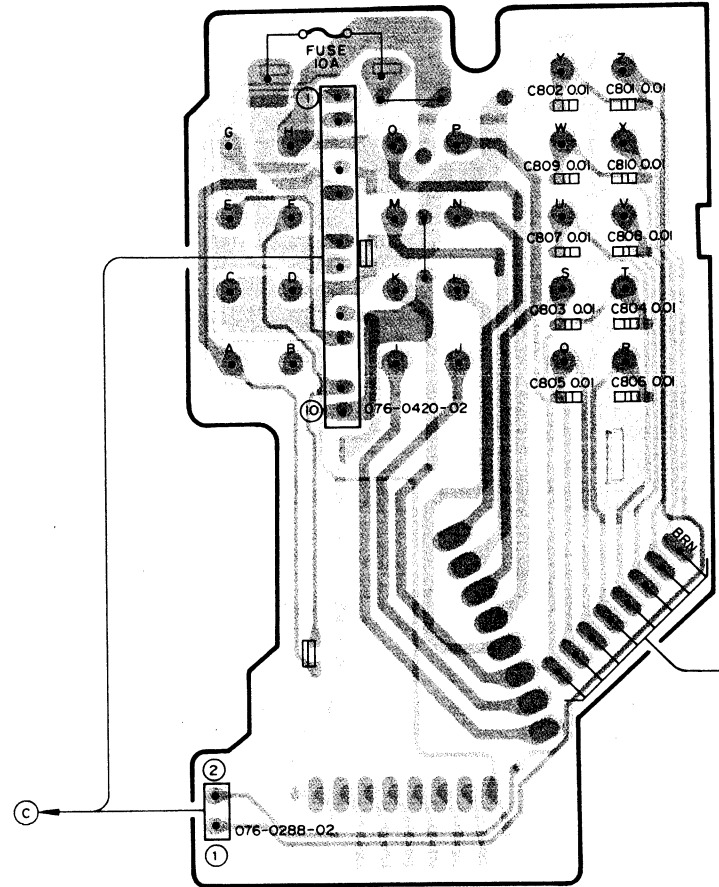
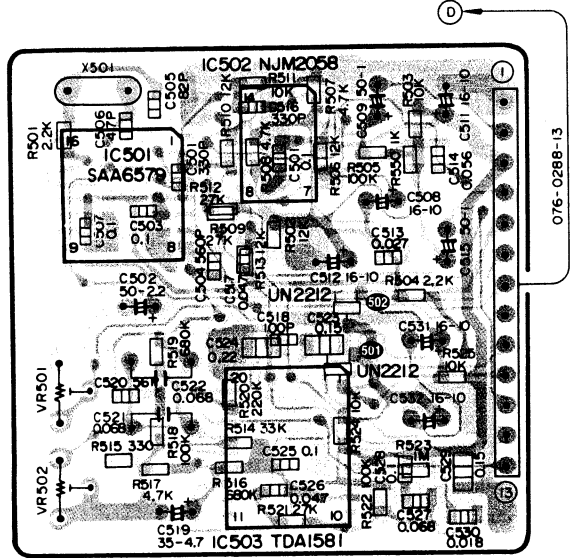
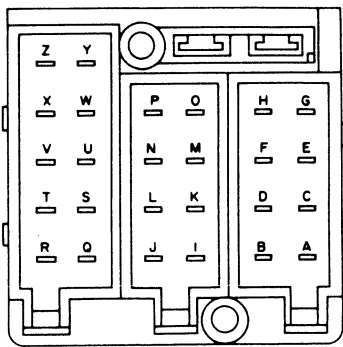


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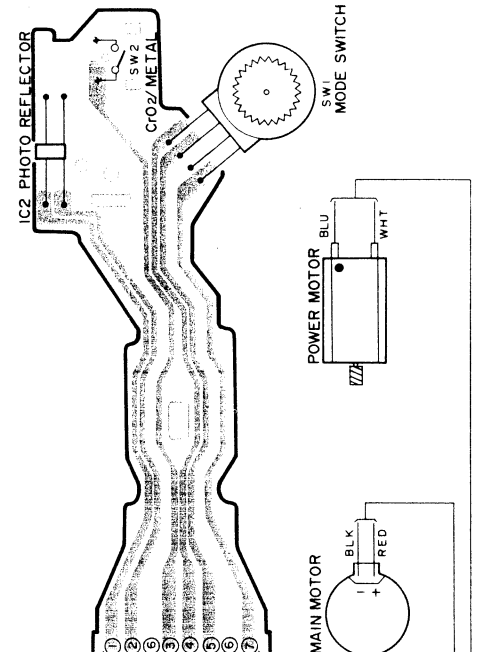
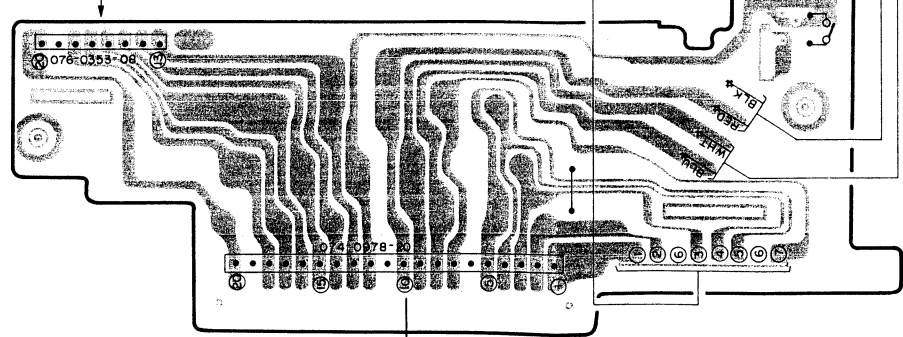
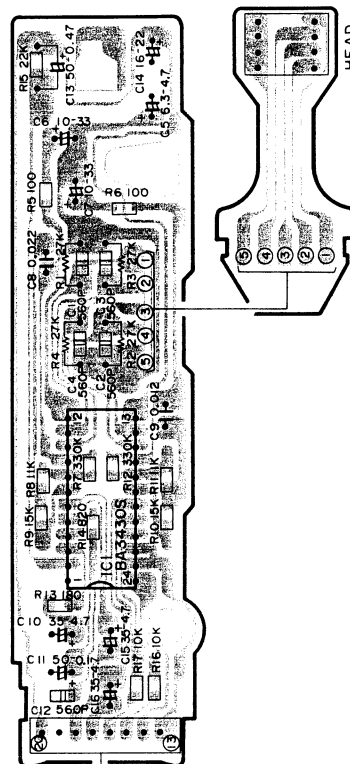
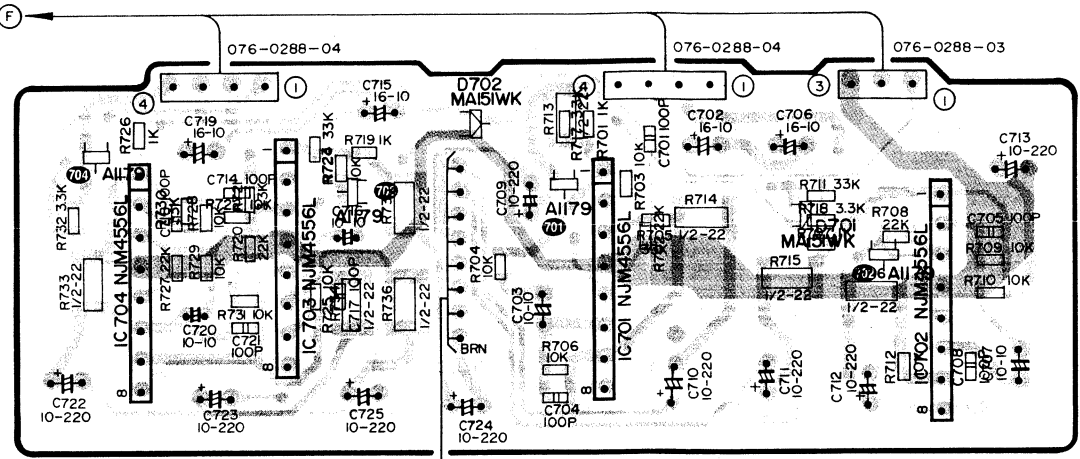


■ PRINTED WIRING BOARD: 2/2

A	REMOTE TURN-ON	N	
B	TELEPHONE MUTE	O	
C	BACK UP	P	
D	REMOTE CONTROL	Q	REAR RIGHT ⊖
E	ILLUMINATION	R	REAR RIGHT ⊕
F	AUTO ANTENNA	S	FRONT RIGHT ⊖
G	GROUND	T	FRONT RIGHT ⊕
H	ACC	U	FRONT LEFT ⊖
I		V	FRONT LEFT ⊕
J		W	REAR LEFT ⊖
K		X	REAR LEFT ⊕
L		Y	SUB WOOFER ⊖
M		Z	SUB WOOFER ⊕

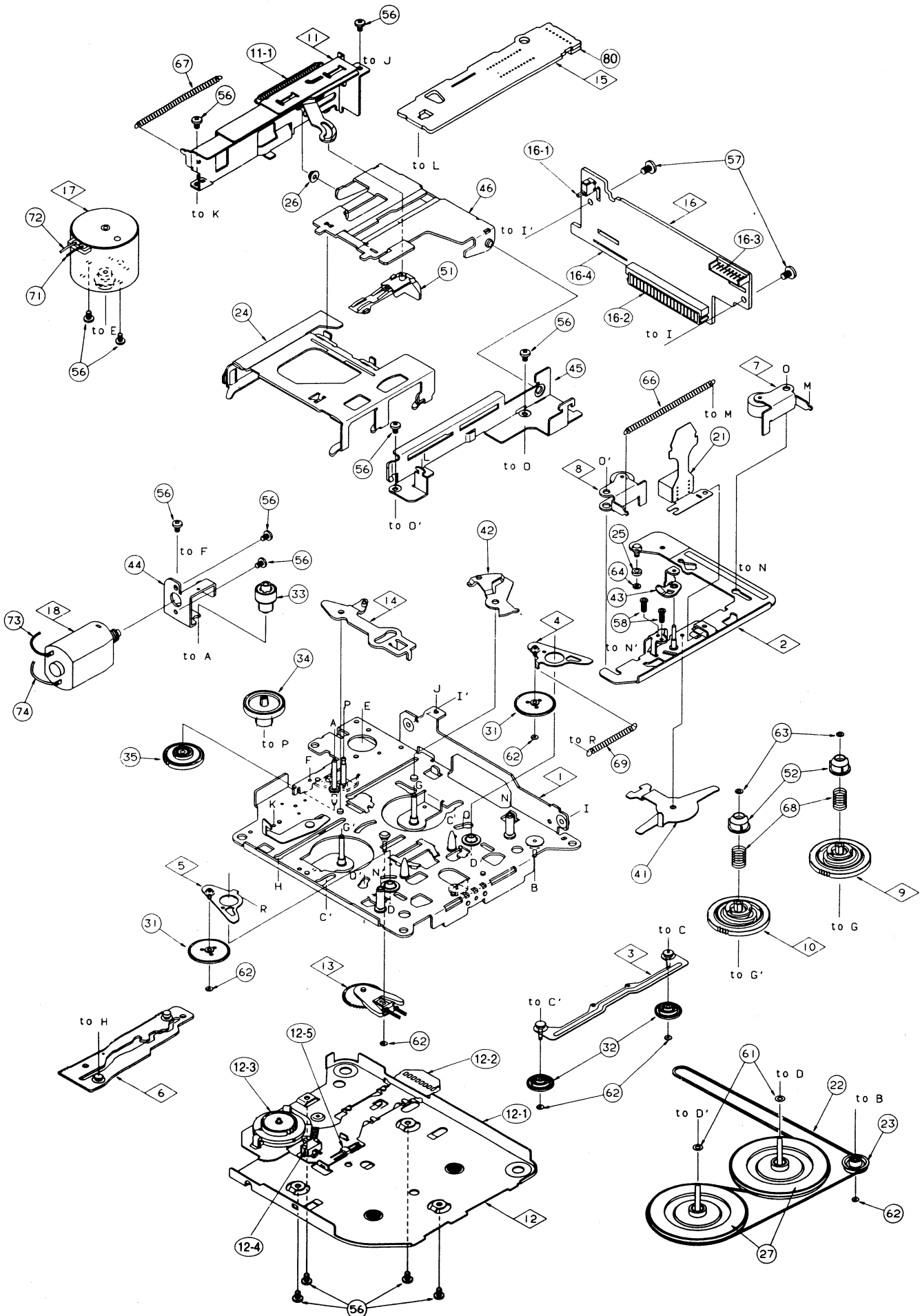


PU-9836A



EXPLODED VIEW • PARTS LIST:

© Tape mechanism section 930-0735-00



NO	PART NO.	DESCRIPTION	QTY
1	960-4294-08	DECK PLATE-ASSY	1
2	960-4261-04	HEAD PLATE ASSY	1
3	960-4262-03	FF/REW-P-ASSY	1
4	960-4263-01	IDLER-P-ASSY F	1
5	960-4264-01	IDLER-P-ASSY R	1
6	960-4266-05	MODE PLATE-ASSY	1
7	960-4269-04	ROLLER ASSY F	1
8	960-4270-04	ROLLER ASSY R	1
9	960-4271-02	REEL ASSY F	1
10	960-4272-02	REEL ASSY R	1
11	960-4298-90	EJECT SUB-ASSY	1
11-1	750-2948-01	SW-PLATE SPRING	1
12	960-4296-90	BOTTOM SUB-ASSY	1
12-1	960-4295-02	BOTTOM P-ASSY	1
12-2	099-9548-00	FLEX PWB	1
12-3	013-3951-00	SWITCH	1
12-4	013-3953-00	SWITCH	1
12-5	051-1114-03	IC NJL5161K-P	1
12-6	746-0767-00	WASHER	2
13	960-4282-03	DETECT-SUB-ASSY	1
14	960-4301-02	PLAY-L-ASSY GF	1
15	099-9540-00	SIDE PWB	1
15-1	074-0881-08	OUTLET SOCKET*8P	1
16	990-0692-00	REAR-PWB-ASSY	1
16-1	013-3906-00	SWITCH	1
16-2	074-0978-20	OUTLET SOCKET*20P	1
16-3	076-0353-08	PLUG*8P	1
16-4	099-9541-00	PWB	1
17	SMA-130-100	DC-MOTOR*MAIN	1
18	SMA-131-100	DC-MOTOR*POWER	1
21	011-0307-28	HEAD	1
22	602-0118-00	BELT	1
23	604-0046-00	TENSION PULLEY	1

NO	PART NO.	DESCRIPTION	QTY
24	606-0101-05	PACK GUIDE	1
25	610-0342-01	HEAD-P-ROLLER	1
26	610-0343-00	GUIDE A ROLLER	1
27	611-0091-02	FLYWHEEL	2
31	613-0285-02	IDLER GEAR	2
32	613-0286-02	FF/REW GEAR	2
33	613-0288-01	HERICAL GEAR	1
34	613-0289-01	GEAR A	1
35	613-0290-00	POWER GEAR	1
41	630-2597-01	CHANGE LINK	1
42	630-2598-04	EJECT LINK	1
43	630-2600-01	ADJUST LINK	1
44	630-2601-02	MOTOR PLATE	1
45	630-2626-01	PWB FRAME	1
46	630-2605-01	GUIDE ARM	1
51	631-1992-01	PACK STOPPER	1
52	631-1993-01	SLIDE BUSH	2
56	716-0484-00	SCREW*M2X2.25 B	13
57	716-0761-01	SCREW	2
58	716-0833-10	AZIMUTH SCREW	2
61	746-0624-00	WASHER	2
62	746-0724-00	WASHER	6
63	746-0761-00	WASHER	2
64	746-0762-00	WASHER	1
66	750-2946-02	PINCH SPRING	1
67	750-2947-01	EJECT-P-SPRING	1
68	750-2949-00	SLIDE SPRING	2
69	750-3017-01	IDLER-P-SPRING	1
71	800-4911-60	VINYL-COAT-WIRE*BLK	1
72	802-4911-60	VINYL-COAT-WIRE*RED	1
73	806-4914-60	VINYL-COAT-WIRE*BLU	1
74	809-4914-60	VINYL-COAT-WIRE*WHT	1